Simple Foreground Background Diff

Here we have a background picture and we would like to discover new objects on top of this background.

We will use the simple opency3.core function **absdiff** and then apply a simple and large **threshold** to pick up all the new objects.

The reference clojure code file can be found here: bgdiff.clj

Let's see first what our background looks like.

Then put our hand in front of that background.

```
(def fg (-> "resources/images/bgdiff/front.png" imread (u/resize-by 0.5)))
(u/mat-view fg)
```

The absdiff function from OpenCV core is used, and we can directly see the output.

```
(def output (new-mat))
  (absdiff bg fg output)
  (u/mat-view output)
```

```
; diff in color
(def fg-1
  (-> output
  clone
   (threshold! 10 255 1)))
(u/mat-view fg-1)
```



You can then use a very permissive threshold to find out relevant shapes.

```
; diff in gray
(def fg-2
(-> output
clone
(cvt-color! COLOR RGB2GRAY)
(threshold! 10 255 1)))
(u/mat-view fg-2)
```